

FORM PTO-1390 (Modified)  
(REV 11-2000)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTORNEY DOCKET NUMBER

**TRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)  
CONCERNING A FILING UNDER 35 U.S.C. 371**

**19141-543**

U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR

**09/830,524**

INTERNATIONAL APPLICATION NO.  
**PCT/US99/24630**

INTERNATIONAL FILING DATE  
**21 October 1999 (21.10.99)**

PRIORITY DATE CLAIMED  
**26 October 1998 (26.10.98)**

TITLE OF INVENTION

**CELL SURFACE MOLECULE-INDUCED MACROPHAGE ACTIVATION**

APPLICANT(S) FOR DO/EO/US

**TAO, Weng; WONG, Shou; HICKEY, William, F.; HAMMANG, Joseph, P.; BAETGE, E., Edward.**

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☐ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☒ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☐ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.
4. ☐ The US has been elected by the expiration of 19 months from the priority date (Article 31).
5. ☐ A copy of the International Application as filed (35 U.S.C. 371 (c) (2))
  - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ has been communicated by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
  - a. ☐ is attached hereto.
  - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
  - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ have been communicated by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☐ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
10. ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).
11. ☐ A copy of the International Preliminary Examination Report (PCT/IPEA/409).
12. ☐ A copy of the International Search Report (PCT/ISA/210).

**Items 13 to 20 below concern document(s) or information included:**

13. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
14. ☒ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
15. ☐ A **FIRST** preliminary amendment.
16. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
17. ☐ A substitute specification.
18. ☐ A change of power of attorney and/or address letter.
19. ☒ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825.
20. ☐ A second copy of the published international application under 35 U.S.C. 154(d)(4).
21. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
22. ☒ Certificate of Mailing by Express Mail
23. ☒ Other items or information:

**Sequence Listing and Sequence Statement  
Petition for Two Month Extension  
Express Mail Label No. EL390884380US  
Filed On: 12 October 2001 (12.10.01)**

U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR

09/830,524

INTERNATIONAL APPLICATION NO.

PCT/US99/24630

ATTORNEY'S DOCKET NUMBER

19141-543

24. The following fees are submitted:

**BASIC NATIONAL FEE ( 37 CFR 1.492 (a) (1) - (5) ) :**

- ☐ Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO ..... **\$1000.00**
- ☐ International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO ..... **\$860.00**
- ☐ International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO ..... **\$710.00**
- ☐ International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4) ..... **\$690.00**
- ☐ International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4) ..... **\$100.00**

**ENTER APPROPRIATE BASIC FEE AMOUNT =****\$0.00**Surcharge of **\$130.00** for furnishing the oath or declaration later than ☐ 20 ☒ 30 months from the earliest claimed priority date (37 CFR 1.492 (e)).**\$130.00**

CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE
Total claims	- 20 =	0	x \$18.00
Independent claims	- 3 =	0	x \$80.00
Multiple Dependent Claims (check if applicable).			<input type="checkbox"/>

**\$0.00****\$0.00****\$0.00****TOTAL OF ABOVE CALCULATIONS =****\$130.00**☒ Applicant claims small entity status. (See 37 CFR 1.27). The fees indicated above are reduced by 1/2.**\$65.00****SUBTOTAL =****\$65.00**Processing fee of **\$130.00** for furnishing the English translation later than ☐ 20 ☐ 30 months from the earliest claimed priority date (37 CFR 1.492 (f)).**\$0.00****TOTAL NATIONAL FEE =****\$65.00**

Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) (check if applicable).

☒**\$40.00****TOTAL FEES ENCLOSED =****\$305.00**Amount to be:  
refunded  
charged\$  
\$

- a. ☒ A check in the amount of **\$305.00** to cover the above fees is enclosed.
- b. ☐ Please charge my Deposit Account No. \_\_\_\_\_ in the amount of \_\_\_\_\_ to cover the above fees. A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. **50-0311**. A duplicate copy of this sheet is enclosed.
- d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. **Credit card information should not be included on this form.** Provide credit card information and authorization on PTO-2038.

**NOTE:** Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

ELRIFI, Ivor R.  
Mintz, Levin, Cohn, Ferris, Glovsky & Popeo, P.C.  
One Financial Center  
Boston, Massachusetts 02111  
United States of America

10/17/2001 LLANDGRA 00000073 09830524

01 FC:254

65.00 OP

SIGNATURE

Christina V. Karnakis

NAME

45,899

REGISTRATION NUMBER

12 October 2001 (12.10.01)

DATE

PTO/PET Rec'd 12 OCT 20

Express Mail Label No.: EL390884380US

Date of Deposit: October 12, 2001

Attorney Docket No. 19141-543NATL

#  
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: Tao, *et al*  
SERIAL NUMBER: 09/830,524  
FILING DATE: April 26, 2001  
FOR: CELL SURFACE MOLECULE-INDUCED MACROPHAGE ACTIVATION

October 12, 2001  
Boston, Massachusetts

**Box PCT**

Assistant Commissioner for Patents  
Washington, D.C. 20231

**RESPONSE TO NOTIFICATION OF MISSING REQUIREMENTS UNDER  
35 U.S.C. §371**

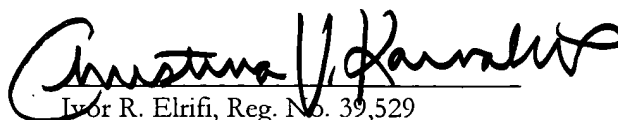
In response to the Notification of Missing Requirements Under 35 U.S.C. §371, mailed  
June 13, 2001, for filing in the above-referenced patent application are the following documents:

- ☒ an executed Combined Declaration and Power of Attorney form  
[3 pgs, 5 counterparts.];
- ☒ an Assignment [3 pgs, 5 counterparts.];
- ☒ Assignment Recordation Coversheet [1 pg.];
- ☒ Computer Readable form of Sequence Listing [1 disk.];
- ☒ Statement in Support of Computer Readable form and paper copy of Sequence Listing  
[9 pgs.];
- ☒ a Petition for a two (2) month extension of time under 37 C.F.R. §1.136(a) [1 pg.];
- ☒ three checks, one the amount of \$40.00 (check # 10532) for the assignment, \$65.00  
(check # 10542) for payment of surcharge on oath or declaration and \$200.00  
(check # 10533) for a two (2) month extension of time as set forth in 37 C.F.R.  
§1.17(a)(2)
- ☒ a Return Postcard; and
- ☒ a Copy of Notification of Missing Requirements [2 pgs.].

Although Applicants believe that no additional fees are due in connection with this  
submission, the Commissioner is authorized to credit any overpayment or charge any deficiencies  
to Deposit Account No. 50-0311, Reference No. 19141-543. A duplicate of this Response is  
enclosed herewith.

If the enclosed papers are considered incomplete, the Mail Room is respectfully requested to contact the undersigned collect at (617) 542-6000, Boston, Massachusetts.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Christina V. Karnakis", written over a horizontal line.

Ivor R. Elrifi, Reg. No. 39,529  
Christina V. Karnakis, Reg. No. 45,899  
MINTZ, LEVIN, COHN, FERRIS,  
GLOVSKY and POPEO, P.C.  
One Financial Center  
Boston, Massachusetts 02111  
Tel: (617) 542-6000  
Fax: (617) 542-2241

Dated: October 12, 2001

TRA 1576427v1



## UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents, Box PCT  
United States Patent and Trademark Office  
Washington, D.C. 20231  
www.uspto.gov

U.S. APPLICATION NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
09/830524	TAO W	19141-543 NA
INTERNATIONAL APPLICATION NO.		
PCT/US99/24630		
I.A. FILING DATE	PRIORITY DATE	
21 OCT 99	26 OCT 98	

IVOR R ELRIFI  
MINTZ LEVIN COHN FERRIS GLOVSKY & POPEO  
ONE FINANCIAL CENTER  
BOSTON, MA 02111

DATE MAILED: 13 JUN 2001

## NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

1. The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as ☐ a Designated Office (37 CFR 1.494) ☒ an Elected Office (37 CFR 1.495):

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> U.S. Basic National Fee.   | <input type="checkbox"/> Indication of Small Entity Status.                                    |
| <input checked="" type="checkbox"/> Copy of the international application.   | <input checked="" type="checkbox"/> Translation of the international application into English. |
| <input type="checkbox"/> Oath or Declaration of inventors(s).  | <input type="checkbox"/> Translation of Article 19 amendments into English.                    |
| <input type="checkbox"/> Copy of Article 19 amendments.  | <input type="checkbox"/> Other:  |
| <input checked="" type="checkbox"/> Priority Document.   |  |
| <input checked="" type="checkbox"/> The International Preliminary Examination Report in English and its Annexes, if any.     |  |
| <input checked="" type="checkbox"/> Translation of Annexes to the International Preliminary Examination Report into English. |  |

2. ☐ Applicant has requested early processing under 35 U.S.C. 371(f) but has not filed the following indicated items and/or the indicated items in paragraph 3 below. The Basic National Fee and the copy of the international application must be filed prior to 20 or 30 months from the priority date to avoid abandonment.

- |   |   |
|---|---|
| <input type="checkbox"/> U.S. Basic National Fee. | <input type="checkbox"/> Copy of the international application. |
|---|---|

3. The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- |  |  |
|--|--|
| <input type="checkbox"/> a. Translation of the application into English. A processing fee will be required if submitted later than the appropriate 20 or 30 months from the priority date.   |  |
| <input type="checkbox"/> The current translation is defective for the reasons indicated on the attached Notice of Defective Translation.   |  |
| <input type="checkbox"/> b. Processing fee for providing the translation of the application and/or the Annexes later than the appropriate 20 or 30 months from the priority date (37 CFR 1.492(f)).  |  |
| <input checked="" type="checkbox"/> c. Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), properly identifying the application (preferably by the International application number and international filing date). A surcharge will be required if submitted later than the appropriate 20 or 30 months from the priority date. |  |
| <input type="checkbox"/> The current oath or declaration does not comply with 37 CFR 1.497(a) and (b) for the reasons indicated on the attached PCT/DO/EO/917.   |  |
| <input type="checkbox"/> d. Surcharge for providing the oath or declaration later than the appropriate 20 or 30 months from the priority date (37 CFR 1.492(i)).   |  |

4. Additional claim fees of \$\_\_\_\_\_ as a ☐ large entity ☐ small entity, including any required multiple dependent claim fee, are required. Applicant must submit the additional claim fees or cancel the additional claims for which fees are due (37 CFR 1.492(g)). See attached PTO-875.5. ☒ Applicant has not submitted the required sequence listing pursuant to 37 CFR 1.821-1.825. See attached PCT/DO/EO/920.**ALL OF THE ITEMS SET FORTH IN 3(a)-3(d), 4 AND 5 ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 22 OR 32 MONTHS (where 37 CFR 1.495 applies) FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.**

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

6. If box 3a or 3c is checked, a translation of the Annexes **MUST** be submitted no later than the time period set above or the Annexes will be cancelled. A processing fee will be required if submitted later than 20 or 30 months from the priority date.7. ☐ The Article 19 amendments are cancelled since a translation was not provided by the appropriate 20 (37 CFR 1.494(d)) or 30 (37 CFR 1.495(d)) months from the priority date.

Applicant is reminded that any communication to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above. (37 CFR 1.5)

**A copy of this notice MUST be returned with this response.**Enclosed: ☐ PCT/DO/EO/917 ☐ Notice of Defective Translation  
☐ PTO-875 ☒ PCT/DO/EO/920

Paulette Kidwell, Paralegal

FORM PCT/DO/EO/905 (March 2001)

Telephone: 703-305-3656

Done By	
<input type="checkbox"/> Data Entry	8/12/01
<input checked="" type="checkbox"/> Docket Entry	
<input type="checkbox"/> Docket Cross Off	
<input type="checkbox"/> Previously Entered	
<input type="checkbox"/> No Docketing Req	
<input type="checkbox"/> ELITE	
<input type="checkbox"/> Annulities	

RECEIVED

JUN 18 2001

MINTZ LEVIN, BOSTON  
PATENT DOCKET DEPT.